LILY JO FACTORA

she/her/hers

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Technical Skills

Languages: SageMath, Python, R, C++, HTML, CSS.
Personal Projects: Personal website.
Developer Tools: VSCode, CoCalc.

Work Experience

Archives Work Study Assistant Portland, OR
Portland Art Museum October 2023 - Present
- Prepares and organizes Museum Archives for relocation, safeguarding valuable historical materials and enhancing accessibility for future researchers through cataloging and documentation.

Research Assistant on the *h*-vector conjecture for graphic matroids Portland, OR
Reed College Mathematics & Statistics Department Summer 2023
- Collaborated with other research assistants to investigate the *h*-vector conjecture, a well-known problem in matroid theory, a subfield of math at the intersection of combinatorics and graph theory.
- Designed and executed a series of experiments and computational simulations to test conjectures and hypotheses, contributing to the ongoing efforts to solve the problem.
- Gained proficiency in relevant software tools and programming languages to facilitate research tasks.
- Created a well-organized research poster summarizing project findings and procedures, presented at a summer research showcase to effectively convey complex mathematical concepts to a diverse audience.

Concierge Burbank, CA
Castaway Restaurant Summer 2022
- Demonstrated outstanding customer service with active listening, strong interpersonal skills, and efficiently managed seating using computer software and effective task prioritization.

Warehouse Inventory Specialist Los Angeles, CA
Gregory Daniels Fine Arts Summers of 2018-2021
- Oversaw cleanliness and organization of work areas while managing inventory to maintain accurate records. Handled digital order processing and troubleshooted shipping/receiving issues.

Volunteer Tsaile, AZ; San Diego, CA
Sierra Service Project Summers of 2017-2020
- Completed community-based projects to make homes accessible to historically underserved residents.

Education

Reed College Portland, OR
BA in Mathematics/Computer Science Graduation: May 2025
Activities: Asian American and Pacific Islander Student Union (Board Member), Photography Club
Relevant Coursework:

Mathematics: Introduction to Probability and Statistics, Calculus, Introduction to Analysis, Discrete Structures, Linear Algebra, Vector Calculus

Computer Science: Computer Science I (Python), Computer Science II (C/C++), Algorithms and Data Structures